

Storm Water Outfall Summary
Outfalls Targeted for 2006/2007 Water Year

Outfall(s)	Facility or Location	River Mile	Land Use	Industrial Type	LWG Member	Notes and Comments
High Priority Sites (20 Outfalls)						
WR-24	OSM	2.1	Heavy Industrial	Steel Manufacturing	Yes	Discuss further. PCB Source. Some stormwater solids data is available. OSM is pursuing stormwater treatment to be implemented in 2007.
WR-121 or WR-123	Schnitzer International Slip	3.7	Heavy Industrial	Metals	No	Metals exceed AWQC in International slip. Metals recycling and related industries. DEQ is working with Schnitzer on characterization. Further discussion required to confirm proper outfall. May want to add riverside outfall.
WR-86	Mar Com	5.6	Heavy Industrial	Ship maintenance and Repair	No	Outfall near bargeway.
WR-107	GASCO	6.4	Heavy Industrial	MGP	Yes	MGP waste
WR-189 through 193 (In active) OF 49 is the only active outfall and will be sampled	Willamette Cove	6.6	Heavy Industrial	Ship maintenance and Repair	Yes	Further discussion required to confirm outfall. Evaluate storm system to identify proper outfall to sample. Industrial land use ceased at these sites in 1979 and 1981. Willamette Cove is a vacant site with no activity. Does not represent industrial land use. In 2006 the Port and DEQ evaluated the outfalls at this site and determined only OF-49 as "active". Outfalls WR 189 through 193 either do not exist or are historical inactive outfalls (Port memo to DEQ dated May 19, 2006)
OF-22C	GASCO, Koppers, Siltronic (City Outfall)	6.9	Heavy Industrial	MGP	Yes	Discuss further. Koppers discharges under NPDES permit on batch basis. PAHs associated with Koppers. PAH GW infiltration
WR-6	Rhone Poulenc	6.9	Heavy Industrial	Pesticide and herbicide manufacturing	Yes	Discuss further. Stormwater discharges to WWTP. WWTP discharges to river under major Industrial NPDES Permit. Evaluate existing data and treatment system to determine whether to sample.
WR-96	Arkema	7.3	Heavy Industrial	Chemical Manufacturing	Yes	Discuss further. Evaluate existing stormwater data to determine whether sampling is required. Pesticide and other chlorinated chemical manufacturing.
Discharges to Saltzman Creek	Chevron Asphalt	7.6	Heavy Industrial	Asphalt production	Yes	See Saltzman Creek below
WR-28 or WR-29 (each discharge to Saltzman Creek)	GS Roofing	7.6	Heavy Industrial	Roofing Products	No	See Saltzman Creek below
WR-14	Chevron - Willbridge	7.7	Heavy Industrial	Bulk Fuel	Yes	Between downstream Chevron Docks
OF-22	Willbridge	7.7	Heavy Industrial	Petroleum	Yes	See OF-14 above (this is listed as "WR 14" above, verify that OF 14 and WR 14 are the same)
Saltzman Creek	Willbridge, GS-Roofing, Forest Park	7.6	Mixed Use	Petroleum	Yes	Majority of 1105 acre basin is Forest Park. DEQ is working with GS Roofing (see below).
WR-161	Portland Shipyard	8.2	Heavy Industrial	Ship maintenance and Repair	Yes	Downtown end of Swan Island; discharges at dry docks. Further discussion required to confirm stormwater outfall to sample.

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Dischagres to M-1	Freightliner Truck Plant	Swan Island Lagoon	Heavy Industrial	Manufacturing	No	See M-1 above No note above about M-1, M-1 should be added to the list of outfalls to be sampled since it is a priority outfall per DEQ
Dischagres to M-1	Fred Devine	Swan Island Lagoon	Light Industrial	Equipment maintenance	No	See M-1 above. Source of PAHs and phthalates.
WR-145	Gunderson	8.9	Heavy Industrial	Barge and Railroad Car Manufacturing	Yes	Launchway. Grabs and catch basin being sampled under DEQ program. Further discussion required to verify outfall.
WR-148	Gunderson (former Schnitzer)	9	Heavy Industrial	Metals Handling	Yes	Upstream end of Gunderson. Grabs and catch basin being sampled under DEQ program. Further discussion required to verify outfall.
Discharges to OF-17	GE Decommissioning	9.7	Light Industrial	Electrical equipment	No	PCB Source (the Port feels we should discuss with Bruce Hope how this info will be incorporated into his model, and whether an additional sample should be collected where the outfall discharges to the river)
WR-22B	City Outfall draining Front Avenue (Gould, Rhone Poulenc, Doane Lake, Air Liquide)	6.9	Heavy Industrial	Chemical Mfc	Yes	Discuss further. Land use or high priority. 37 Acres. City considering under DEQ program; source control has been performed (e.g. lining). Dry weather data is available.
Land Use Based (9 Outfalls)						
Numerous ODOT Outfalls	Hwy 30	TBD	Major Transportation	Highways	No	Numerous ODOT outfalls along Hwy 30. City has ODOT as built. Discuss further - resarch required to identify sampling locations.
WR-26	BP Bulk Fuel	4.7	Heavy Industrial	Bulk Fuel	No	Discuss further. LWG Petroleum members - Time, Chevron (Willbridge) Conoco Phillips (Willbridge). Need further discussion to confirm which bulk fuel facility to sample at.
OF-53	St. Johns (City Outfall)	5.1	Residential	NA	Yes *	Residential NE of St. Johns Bridge - 102 acres - Port is proposing (delete "Port is proposing")
OF-49	St. Johns (City Outfall)	6.5	Residential	NA	Yes *	Residential SE of St. Johns Bridge - 64 acres
WR-66	Siltronic	6.5	Heavy Industrial	Silicon wafer manufacturing	Yes	Downstream end of Wacker. Industrial land use category.
OF-22C*	Forest Park (City Outfall)	6.9	Open Space (Forest Park)	NA	Yes *	Doane Creek basin - appx 900 acres forest land; sample upstream of Hwy 30. May be other options (e.g., Saltzman Creek).
OF-M2	Mocks Bottom (City Outfall)	Swan Island Lagoon	Light Industrial	Trucking and Distribution	Yes *	Trucking and distribution, 118 acres
OF-16	Multiple	9.7	Mixed Industrial Use	Mixed Use	Yes *	Almost exclusively mixed Industrial - pursuing with DEQ but not this year
OF-12, 12-A or 13	Fremont Bridge - drains Hwy 30 and 405 interchange.	11.1	Major Transportation	Highways	Yes *	Further discussion required to confirm outfall. OF-12, OF 12A OF-13?
T4- Recontamination Evaluation (7 Outfalls)						
OF-52-C	T-4 (City Outfall). Port is sampling	4.3	Light Industrial	Materials	Yes	Head of Slip 1. Port is proposing as part of T-4 recontamination evaluation.
OF-53	Residential above T4. Port is sampling.	5.1	Residential	Local traffic/residential	Yes	

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WR-182 This is not an outfall location at T4. However, the Port is sampling basin R which correlates with City ID: WR-183	T-4, Slip 1	4.3	Heavy Industrial	Materials	Yes	Port is proposing as part of T-4 recontamination evaluation.
WR-181/Basin Q. This outfall is below the water level. A composite sampler port is being constructed to access the flow post all drainage collection for this basin.	T-4, Slip 1	4.3	Heavy Industrial	Materials	Yes	Port is proposing as part of T-4 recontamination evaluation.
WR-177/Basin M	T-4, Slip 1	4.3	Heavy Industrial	Materials	Yes	Port is proposing as part of T-4 recontamination evaluation.
WR-20/Basin L	T-4 - Wheeler Bay	4.5	Heavy Industrial	Materials	Yes	Port is proposing as part of T-4 recontamination evaluation.
WR-171 - this outfall has been plugged and abandoned.	T-4 - Slip 3	4.6	Heavy Industrial	Historical pipeline spill	Yes	Port is proposing as part of T-4 recontamination evaluation.
WR-169/Basin D	T-4 (Toyota)	4.7	Light Industrial	Materials	Yes	Downstream end of Toyota. Phthalate source. Port may be doing as part of T-4 recontamination evaluation.
DEQ JSCS Program (21 Outfalls)						
WR-327 or 328	Terminal 5	1.1	Heavy Industrial	Materials	Yes	Outside study area
T4- Recontamination Evaluation (7 Outfalls)	Consolidated Metco	2.8	Heavy Industrial	Metals Handling	No	See OF-53-A above
Unknown	PGE	3.1	Light Industrial	Fuel Storage	No	No outfalls depicted on map
WR-151	Time Oil	3.4	Heavy Industrial	Petroleum	Yes	
WR-75, 76 or 77	Kinder Morgan (aka GATX)	4.1	Heavy Industrial	Petroleum	No	
WR-212 or WR-210	Brix Maritime (aka Foss)	5.5	Light Industrial	Ship maintenance and Repair	No	
WR-207	Marine Finance	5.8	Light Industrial	Manufacturing	No	
WR-187 or WR-188	Crawford St. Corporation	6.3	Heavy Industrial	Metals Handling	No	Copper source
WR-9, 10, or 11	McCall Oil	8	Heavy Industrial	Petroleum and Asphalt production	No	
WR-7, WR-8; also discharges to OF-19	Glacier Northwest	8.1	Light Industrial	Aggregate processing	No	
WR-7, WR-8; also discharges to OF-19	Front Avenue LP	8.1	Heavy Industrial	Manufacturing	No	

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OF-19	Chevron Asphalt, Calbag Metals, Front Ave LLP, PGE forest Park, Schnitzer Kittridge, Mt. Hood Chemical (2)	8.3	Mixed Industrial Use	Mixed Use	Yes *	Discharges at Shaver Transportation - City has committed to investigating under DEQ RI. Additional site discovery work may be required.
Discharges to OF 18	Christensen Oil	8.8	Heavy Industrial	Petroleum	No	See OF-18 above
Discharges to OF 18	Owens Corning (Trumbull Asphalt)	8.8	Heavy Industrial	Asphalt production	No	
Discharges to OF 18	Texaco Bulk Fuel	8.8	Heavy Industrial	Petroleum	No	
Discharges to M-3	Freightliner Parts Plant	Swan Island Lagoon	Heavy Industrial	Manufacturing	No	
Unknown	Guilds Lake Railroad Yard	9	Heavy Industrial	Railroad	No	
WR-218	UPRR Albina	10	Heavy Industrial	Railroad	Yes	Railroad Yard. Outfall based on catch basin data and proximity to AOPC. Need to verify.
WR-1 through WR-5	Sulzer Pump	10.4	Heavy Industrial	Manufacturing	No	
WR-222 through 234	Terminal 1	10.8	Residential	NA	Yes	Former marine terminal. Converted to high density residential/North parcel owned by the COP for big dig project (appears complete). South parcel is condominiums.
Unknown	Galvinzers	Unknown	Heavy Industrial	Manufacturing	No	

Notes

* City outfall draining large number of properties

Outfalls were identified based on LWG and City of Portland proposals and sites identified by DEQ for sampling; confirmed at November 30, 2006 Meeting.

Sites to be sampled based on high priority or land use basis will use method that includes flow or time-weighted whole water samples and sediment traps.

T-4 Sites to be sampled based on site specific sampling protocol.

Sites to be sampled as part of DEQ program will follow JSCS protocol

Outfalls 22-C and Saltzman Creek include both land use (Forest Park) and High Priority sites - may require samples at more than one location.